

U.S.S.N. 10/707,090

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140809MG (GEMS 0231 PA)

In the claims:

1. (Currently Amended) A magnetic resonance imaging system comprising:

at least one superconducting magnet generating a static magnetic field;

a gradient coil assembly with an associated patient bore enclosure comprising:

at least one gradient shield coil ~~generating at least one gradient magnetic field;~~ and

at least one static field-shaping coil residing between said at least one gradient shield coil and said patient bore enclosure and supplementing said static magnetic field.

2. (Original) A system as in claim 1 wherein said at least one superconducting magnet resides within a cryostat having at least one thermal shield, said at least one static field-shaping coil resides between said at least one thermal shield and said patient bore enclosure.

3. (Currently Amended) A system as in claim 1 wherein further comprising said at least one gradient shield coil compensating for pulse sequences generated within the magnetic resonance imaging system.

4. (Currently Amended) A system as in claim ~~[[3]]~~1 wherein said at least one gradient shield coil resides between said at least one superconducting magnet and ~~said gradient coil assembly~~ said at least one static field-shaping coil.

5. (Currently Amended) A system as in claim ~~[[3]]~~1 wherein said at least one static field-shaping coil resides between said at least one gradient shield coil and ~~said patient bore enclosure~~ at least one gradient coil.

Entry
Approved LMA
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